

Product no **AS05 083A****Anti-HSP70/HSC70 | Heat shock protein 70/Heat shock cognate protein 70, Affinity purified****Product information**

Immunogen	KLH-conjugated synthetic peptide conserved across all known sequences of HSP70 P08107 and HSC70 proteins P11142
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl of sterile water
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
Additional information	For detection of plant and algal cytoplasmic hsp70 we recommend following product: AS08 371

Application information

Recommended dilution	1 : 1000 (IP), 1 : 1000-1 : 5000 (WB)
Expected apparent MW	70 kDa
Confirmed reactivity	Fish, mammals, fungi: <i>Antrodia infirma</i> , <i>A. sinuosa</i> , <i>A. xantha</i> , <i>Gloeophyllum protractum</i> , <i>Gloeophyllum sepiarium</i> , <i>G. carbonarium</i> , <i>Junghunia luteoalba</i> , <i>Mustelus canis</i> , <i>Oligoporus sericiomollis</i> , <i>Phlebia cornea</i> , <i>Squalus acanthias</i> , <i>Zearaja maugeana</i>
Predicted reactivity	Bovine, <i>Danio rerio</i> (Zebrafish), <i>Drosophila melanogaster</i> , Hen, Mouse, Rat
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is not suitable for work with samples from higher plants
Selected references	Bockus et al. (2020). Thermal Range and Physiological Tolerance Mechanisms in Two Shark Species from the Northwest Atlantic. The Biological Bulletin, ahead of print. Morash et al. (2020). The endemic and endangered Maugean Skate (<i>Zearaja maugeana</i>) exhibits short-term severe hypoxia tolerance. Conserv Physiol. 2020 Jan 18;8(1):coz105. doi: 10.1093/conphys/coz105. Tunnah et al (2016). Physiological responses to hypersalinity correspond to nursery ground usage in two inshore shark species (<i>Mustelus antarcticus</i> and <i>Galeorhinus galeus</i>). J Exp Biol. 2016 Jul 1;219(Pt 13):2028-38. doi: 10.1242/jeb.139964. Epub 2016 May 9. Bockus (2016). A Study of the Regulatory and Environmental Factors Affecting Trimethylamine Oxide Accumulation in Marine Organisms. Open Access Dissertations. Paper 513. French et al. (2015). High survivorship after catch-and-release fishing suggests physiological resilience in the endothermic shortfin mako shark (<i>Isurus oxyrinchus</i>). Conservation Physiology, Vol 3, Issue 1, 10.1093/conphys/cov044